

4673

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PURSUANT TO DOC SYSTEMATIC REVIEW  
GUIDELINES AS DESCRIBED IN SECTION  
3.3(a), EXECUTIVE ORDER 12356.

Form 604

DEPARTMENT OF COMMERCE  
U. S. COAST AND GEODETIC SURVEY  
\_\_\_\_\_, Director

State: Hawaiian Is. [Redacted]

DESCRIPTIVE REPORT  
*Topographic* | Sheet No. 11 4673  
*Hydrographic*

LOCALITY  
S. Shore of Oahu  
Diamond Head to  
Wailupe Naval Radio Station

1925

CHIEF OF PARTY  
E.R.Hand

NOTARIZED BY THE OFFICE

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HYDROGRAPHIC TITLE SHEET

The finished Hydrographic Sheet is to be accompanied by the following title sheet, filled in as completely as possible, when the sheet is forwarded to the Office.

4673

U. S. Coast and Geodetic Survey.

Register No. 4673 11

State Terr. of Hawaii . . . . .

General locality South shore of Oahu . . . . .

Locality Diamond Head to Wailupe Naval Radio Station

Chief of party Eoline R. Hand . . . . .

Surveyed by . . . . .

Date of survey Sept-Oct. 1926 . . . . .

Scale 1: 5000 . . . . .

Soundings in feet . . . . .

Plane of reference MLLW . . . . .

Protracted by C.H.M. CHM  
B.E.G. Soundings in pencil by C.H.M.  
B.E.G.

Inked by . . . . . Verified by . . . . .

Records accompanying sheet (check those forwarded):

Des. report,  Tide books,  Marigrams,  Boat sheets,

Sounding books,  Wire-drag books,  Photographs.

Data from other sources affecting sheet . . . . .

Remarks:

Tide gauge at Honolulu a tide book accompaniesthisis data, in which are the correct mill. values, derived from the tidal curves drawn by the aut. gauge at pier 6. Honolulu.

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DESCRIPTIVE REPORT

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12/7/26  
Eoline R. Hana, Chief of Party.

To accompany hydrographic sheet No. 11, Diamond Head to Waikiki Naval Radio Station.

These limits embrace the Diamond Head Crater area, which extensive mass juts out prominently into the sea, creating thereby a difficult and dangerous problem in the matter of hydrographic studies close to its shore. Good landings would hardly be expected, for these reports have stressed the point that in this regard the points are to be passed up in favor of the coves; yet there are some possibilities worthy of note. A review of my Report for Sheet No. 1 (par 2) will be helpful in a proper consideration of these following notes. The prevailing condition here will be the easterly trade accentuated somewhat by what additional wind spills around this prominent head after hitting the pall to the north, and a swiftly moving swell out of the deep water to the east the north ends of which - encountering the shoal ledge there - execute a kind of right wheel and pile up a wicked surf all around the point. These very conditions are what make for good landings toward the northwest, Honolulu way, for Diamond Head (wave when a big "kona" is on) creates an excellent lee. The swimming advantages of Waikiki would be nil were it suddenly to be removed.

A barrier reef (with openings) extends along this stretch above named, except off Kupikipikis Pt. (Black Pt.) Unlike further to the west small-boats cannot pass up and down behind this reef, though small flat bottomed craft might do it in places at high tide. Some soundings are shown, but they were obtained with difficulty at the highest water. The reef openings let into pockets only. A study of the complementary sheet "K" should be made for additional information as to the make-up of the shore etc.

No landing on this sheet equal in importance and value that off signal "Ult" of sheet No. 9, and described in last paragraph of report for that survey. It just fails to come on this sheet No. 10, at west end. The best landing is at Black Pt. Datum Pt. (which it is seen is not at the point of Diamond Head itself, but in the cove to the east) This is a triangulation point, marked by a pavilion built on concrete piles on the reef. It is or was a datum point for artillery fire, it is assumed. Passage is to be made on the west side, close to. It is classified as "good" only. Of an afternoon (with the trade blowing all day) it may break across at times; but there is only one line of breakers, and so the preferable landing method would be to watch these possible breakings for ten of fifteen minutes, and then "make a run for it". The opening is small, but considerable water will be found inside, as the sheet will show. West of "Black" Point there are two somewhat similar landings, "possible" to "fair". The one between stns. "Pro" and "Post" has the wider opening through the reef. (Pro is porch of Rev. Usborne's house on beach just west of D.E. light. A road goes down to beach here.) There is a wide bar across the entrance outside, with only five feet, and as there are liable to be several lines of swell, breaking or threatening to break, landing should be made by backing in. The other is off "Ope" - "EA" (at Mrs. Adam's Japanese villa). But there is more water on the bar, and it is possible to work in from the southwest and get north of the worst breaking, where two fathoms would be found, around the reef opening and inside. This latter landing is I believe the preferable of the two. There is a landing at "Po", graded as "possible". This is at Mrs. McWayne's, west of Black Point. Landing could be made by BACKING in due north on "Bob" till well inside of the breakers of shoal that makes out WSW from "CAR", then "crabbing" NE toward "Hum" (with bow to breakers at all times) then, when well inside the breaking on abovementioned shoal, turning and running in to "Po" through the narrow entrance that will be seen on sheet. This is very rocky in here, and once inside a boat might be punctured, but a landing can be accomplished. Southeast of "Club" (the old Isenberg place, now a golf headquarters for new Royal Hawaiian Hotel) is another "possible" landing, where a boat under oars manned by skilled men may back through this wide opening on certain days (if surf not too bad) and find a fathom of comparatively quiet water, and a boat passage up close to "Bath" which is the municipal bath house at Kahala.

Tidal currents not pronounced; outside they appear to flow west with a rising tide, yet at same time, close to reef go in opposite direction.

ORIGINAL to Dept. Commander, Hawaiian Dept. (G2).

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Doline R. Hana, Lt. USCGS.

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C.R. 663

Statistics sheet No. 11  
 Diamond Head to Wailupe Naval Radio Station,  
 1926

Eoline R. Hand,  
 Chief of Party.

Date, 1926	Letter	Vol. ume	Pes- sitions	Sound- ings	Miles;	Vessel status.
September 29.....	a	1	80	394	5.2 ✓	Whaleboat
" 30.....	b	1	63	411	4.1 ✓	"
October 1.....	e	1	49	225	3.3 ✓	"
" 13.....	d	1	87	327	7.7 ✓	"
" 14.....	e	1	62	187	4.0 ✓	"
" 14.....	e	2	35	108	3.5 ✓	"
" 15.....	f	2	46	117	2.9 ✓	"
" 16.....	g	2	159	418	5.5 ✓	"
" 18.....	h	2	73	218	4.1 ✓	"
" 19.....	j	2	135	342	5.0 ✓	"
" 20.....	k	2	45	56	2.0 ✓	"
" 20.....	k	3	125	301	5.4 ✓	"
" 22.....	l	3	126	381	4.1 ✓	"
" 23.....	m	3	3	56	0.2 ✓	"
" 25.....	n	3	182	610	0.0 ✓	"
Total volume 1 .....		360		1554	24.3 ✓	
" " 2.....		453		1259	22.1 ✓	
" " 3.....		436		1270	17.7 ✓	
Total sheet 11.....		1249		4091	<del>641</del>	

*J.D.M.*  
Copy for Records Section.

October 22, 1927.

(11)

Division of Hydrography and Topography:

Division of Charts:

Tide reducers are approved in  
volumes of sounding records for

HYDROGRAPHIC SHEET

4675

Locality:

SOUTH SHORE OF CANARY ID., T. H.

Chief of Party:

Plane of reference ~~18 R. NAD.~~ 1926.  
ft. on tide staff at ~~M L L W~~

3.8

Kemochalm (tabulations)

Condition of records satisfactory except as checked below:

1. Locality and sublocality of survey omitted.
2. Month and day of month omitted.
3. Time meridian not given at beginning of day's work.
4. Time (whether A.M. or P.M.) not given at beginning of day's work.
5. Soundings (whether in feet or fathoms) not clearly shown in record.
6. Leadline correction entered in wrong column.
7. Field reductions entered in "Office" column.
8. Location of tide gauge not given at beginning of each day's work.
9. Leadline corrections not clearly stated.
10. Kind of sounding tube used not stated.
11. Sounding tube No. entered in column of "Soundings" instead of "Remarks".
12. Legibility of record could be improved.
13. Remarks.

*G. Rude*

Chief, Division of Tides and Currents.

U. S. Coast and Geodetic Survey  
 Field Records  
 November 7, 1929.

Notes on sheet No. 4673, Terr. of Hawaii.

Chief of party - Boline R. Hand  
 Surveyed by - Boline R. Hand  
 Plotted by C.H. M. & B.E.G.  
 Verified and mixed by J.T. Stessin

The boat positions on this sheet are not numbered in consecutive order. Thus two positions may be found under the same number and letter (p. 7, vol. 3, etc.) or a skip is made (541-601 etc.). Some of the boat positions are numbered in reverse order - beginning of the line at the end of it - and the soundings are plotted in the same manner. Bottom characteristics are not posted on the sheet. Some of the bottom characteristics (p. 41, vol. 1, etc.) are posted in sounding book between two soundings without pronounced relation to any one of them. Not standard notation "irregular" is used for bottom characteristic (p. 48, vol. 3, etc.). Geographical names added. The sheet is neat and lettering legible.

		Per cent of the total number	Remarks
Number of positions on sheet	1249		
Number of positions checked	500	40	
Number of positions revised	8	.64	
Number of soundings recorded	4091		
Number of soundings revised	60	1.47	Added 570 included
Number of signals revised	None		

December 20, 1928.

Section of Field Records.

Report on Hydrographic Sheet No 4673.  
Diamond Head to Wailea Radio Station, South Shore of Oahu,  
Surveyed in 1926.

To specific instructions issued for this sheet. Work  
was done in conjunction with the War Department.  
Chief of Party - Foline R. Haun.

Surveyed by -  
Protracted and soundings plotted by - C.H.M. and B.E.G.  
Verified and picked by - J.T. Bessie.

1. The records conform to the requirements of  
the General Instructions. The records made several  
errors in numbering the positions so numbering 23a  
and 64 K twice, omitting numbers between 54 K and  
60 L, etc.

2. The plan and character of development  
fulfill the requirements of the General Instructions.  
There are a few places on the sheet where a few  
more soundings would not have gone amiss, especially  
the eastern end, but in view of the difficult  
nature of this sheet the development can be  
considered excellent.

3. The sounding line crossings are adequate  
but the agreements in several cases were not the  
best. Where soundings plotted on the same point  
and disagreed the shoaler of the two only was shown.

4. The depth curves can be completely drawn, starting with the 6 foot curve. The trend of the zero curve can be drawn on the eastern half of the sheet.

5. The field plotting was completed to the extent prescribed in the General Instructions and was good. The bottom characteristics were not shown and had to be added by the office draftsman.

6. This sheet is joined by Sheets 4538, 4553 and 4552. The junctions with the first two are good but with the latter it is poor. At longitude  $157^{\circ}47\frac{1}{2}'$  and  $157^{\circ}48'$  there are differences of 7 ft. in 35 and 8 ft. in 28, respectively.

7. Reviewed by J.M. Snook. - Dec. 1928.

Approved:-

Chief, Section of Field Records (charts)

Chief, Section of Field Work (H.Y.T.)

Field Records Section (Charts)

HYDROGRAPHIC SHEET No. 4673

The following statistics will be submitted with the  
cartographer's report on the sheet:

Number of positions on sheet . 1249 .

Number of positions checked 500 ..

Number of positions revised 8. (40 & 47 incl.)

Number of soundings recorded . 4091 .

Number of soundings revised . 60 .  
(including added soundings)

Number of signals erroneously

plotted or transferred . NONE ..

Date: November 7 1928 -----  
Cartographer: John T. Stessin -----

Applied to cht 4132 Feb 1947 L. F. Stegman  
(Inshore areas only)

Applied inshore hydros of area east of  $157^{\circ}47'$  to  
cht 4131 April 21 1947 L. F. Stegman